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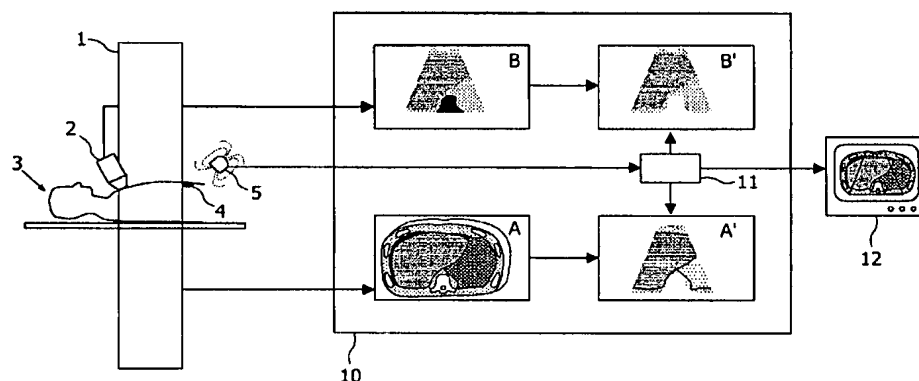
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(54) Title: DEVICE AND PROCESS FOR MULTIMODAL REGISTRATION OF IMAGES



(57) Abstract: The invention relates to a device and a process, with which images of different imaging methods can be registered, for example preoperatively obtained 3D X-ray images (A) and intra operatively obtained ultrasound images (B). First transformed images (A', B') are then generated in a data processing device (10), which are aligned to each other with regard to the peculiarities of each imaging method. Particularly from the three dimensional CT-image (A), can be generated a two dimensional image (A') which adheres to the characteristic means of representation of an ultrasound system, while shaded areas behind bones and/or gas-filled volumes can be blended out. With a feature-based registration of the transformed images (A', B') errors are avoided, which are traced back to artifacts and peculiarities of the respective imaging methods.



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